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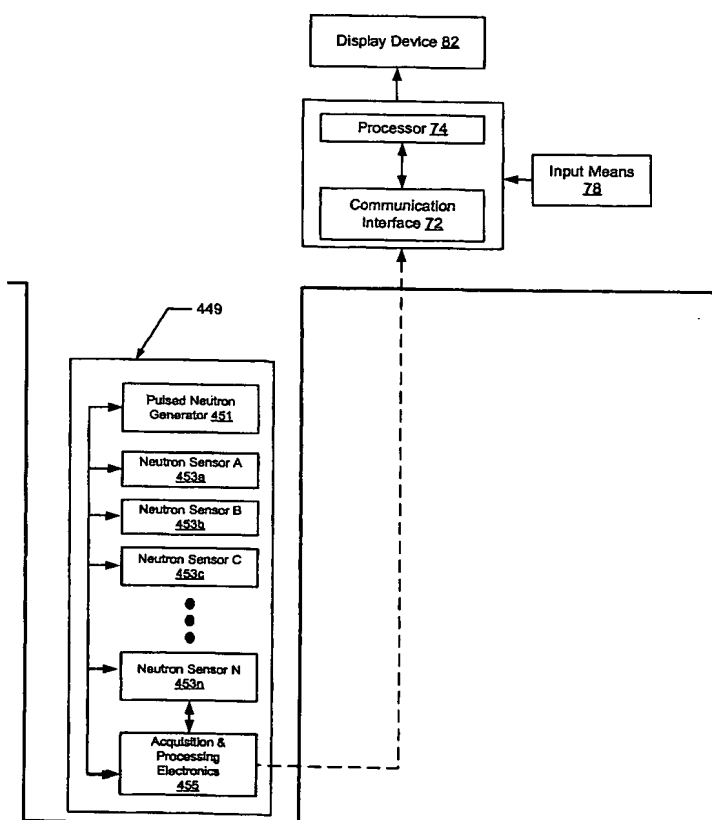
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(54) Title: METHOD AND APPARATUS FOR DOWNHOLE SPECTROSCOPY PROCESSING



(57) Abstract: A method for downhole spectroscopy processing is described. The method includes: obtaining raw spectroscopy data using a downhole tool; processing the raw spectroscopy data using the downhole tool to obtain a downhole processed solution; transmitting the downhole processed solution to a surface processing system; and using the surface processing system to determine lithology information from the downhole processed solution. A downhole tool for processing raw spectroscopy data is also described. The tool includes: a neutron source; at least one detector for detecting the raw spectroscopy data; processing means for processing the raw spectroscopy data to produce a downhole processed solution; and means for transmitting the downhole processed solution to a surface location.

WO 2004/059344 A1



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